

SEALING ARRANGEMENT IN A COMPRESSOR

ABSTRACT OF THE DISCLOSURE

5 A sealing arrangement for a compressor that compresses a gaseous mixture of air
and fuel includes a pressurized air supply duct for supplying pressurized air into a
leakage pathway defined between a compressor wheel and a housing of the compressor,
which leakage pathway leads from the main gas flow path into a bearing area of the
compressor, the pressurized air being supplied at a pressure sufficient to ensure that air
10 and gaseous fuel cannot flow from the main gas flow path through the leakage pathway
into the bearing area. A portion of the pressurized air flows into the bearing area, while
the remainder of the air flows outwardly and is either fed back into the main gas flow
path or is combined with air and gaseous fuel that leaks past an outer seal and is
recirculated back to the compressor inlet.

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